

COMPLETE SAMPLE DELIVERY GROUP FILE (CSF)  
EVIDENCE AUDIT CHECKLIST  
U.S. Environmental Protection Agency - Region 8  
Environmental Services Division, Multi-Media Branch  
Analytical Operations Section

Audit Number: 08-13-08

Date CSF Received: 12/3/07

Received By: Carol Beard

Date of Audit: 12/10/07

Audited By: Carol Beard

Resubmitted CSF? Yes ☐ No ☒

Lab Name: A4 Scientific Inc.

Lab Location: The Woodlands, TX

Site Name: Richardson Flat Tailing

Site Manager: Kathryn Hernandez

RAS Number: 36948

ULSA Number:

SDG Number: MN23NO

Number of Samples: 20/45

CLP Lab Code: A-4

AUDIT CHECKLIST

CHAIN OF CUSTODY

- |   |   |
|---|---|
| 1. Custody Seal Present?  | Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> |
| 2. Condition of Seal? Intact <input checked="" type="checkbox"/> Signed <input checked="" type="checkbox"/> Broken <input type="checkbox"/> Unsigned <input type="checkbox"/> |   |
| 3. Chain of Custody Record(s) Present?  | Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> |
| 4. Chain of Custody Record(s) Signed?   | Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> |
| 5. Chain of Custody Record(s) Dated?  | Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> |
| 6. Traffic Report(s) or Packing List(s) Present?  | Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> |
| 7. Traffic Report(s) or Packing List(s) Signed?   | Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> |
| 8. Airbill Present?   | Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> |
| 9. Airbill Number(s): <u>863/98575033</u>   |   |
| 10. Airbill Signed?   | Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> |
| 11. Airbill Dated?  | Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> |
| 12. Sample Tags Present?  | Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> |
| 13. Should Sample Tags be Present?  | Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> |

AUDIT NUMBER: 08-13-08

FORM DC-2

14. Form DC-2 Present?  
15. Numbering Scheme on Form DC-2 Correct?  
16. Enclosed Documents Listed?  
17. Listed Documents Enclosed?

Yes ☒ No ☐  
Yes ☒ No ☐  
Yes ☒ No ☐  
Yes ☒ No ☐

FORM DC-1

18. Form DC-1 Present?  
19. Form DC-1 Complete?  
20. Form DC-1 Correct?

Yes ☒ No ☐  
Yes ☒ No ☐  
Yes ☒ No ☐

DOCUMENT CONTROL

21. Laboratory Documents Complete?  
22. Laboratory Documents Legible?  
23. Original Documents Included in CSF?

Yes ☒ No ☐  
Yes ☒ No ☐  
Yes ☒ No ☐

DATA INSPECTION

4. Form I's present (for each analytical fraction as defined by the Traffic Report/Chain of Custody Record)?  
5. Forms 2 through 8 (VOC & SVOC), Forms 2 through 10 (Pesticides), Forms 2 through 14 (Metals & Cyanide) present?  
6. Raw data present (for each analytical fraction as defined by the Traffic Report/Chain of Custody Record)?  
7. Percent Solids Form present for soil samples?

Yes ☒ No ☐  
Yes ☒ No ☐  
Yes ☒ No ☐  
Yes ☒ No ☐

TE: If items 1, 3, 4, 6, 7, 8, 12, 14, 18, or 22 are missing, corrective action measures must be taken by the CSF auditor and summarized below.

08-13-08

AUDIT NUMBER:

COMMENTS AND NOTES:

Carol Blamp

12/10/07

Auditor

Date

EPA OFFICIAL SEALS PAGE

Please attach all custody seals below:



AUDIT NUMBER: 08-13-08

EPA CLP ELECTRONIC DISKETTE(S)

CASE # 36948 SDG #: MH23NO

SITE NAME: Richardson Flat Tailings

RPM: Kathryn Hernandez

DATE: 12/10/07 0

AUDITOR: Carol Beard

Audit # 08-13-08  
RAS # 36948  
SDG - MH23NO  
Site - Richardson Flat Tailings  
RPM - Kathryn Hernandez  
~~DATE~~ 12/10/07  
LAB - A-4

## USEPA-CLP

## COVER PAGE

Lab Name: A4 Scientific, Inc. Contract: EPW06057  
Lab Code: A4 Case No: 36948 NRAS No.: \_\_\_\_\_ SDG No: MH23N0  
SOW No.: ILM05.4

## EPA Sample No.

## Lab Sample ID

MH23N0	0008703-01
MH23N1	0008703-02
MH23N2	0008703-03
MH23N3	0008703-04
MH23N4	0008703-05
MH23N5	0008703-06
MH23N6	0008703-07
MH23N7	0008703-08
MH23N8	0008703-09
MH23N9	0008703-10
MH23P0	0008703-11
MH23P1	0008703-12
MH23P2	0008703-13
MH23P3	0008703-14
MH23P4	0008703-15
MH23P5	0008703-16
MH23P5D	0008703-16D
MH23P5S	0008703-16S
MH23P6	0008703-17
MH23P7	0008703-18

Were ICP-AES and ICP-MS interelement corrections applied?

(Yes/No)

ICP-AES

ICP-MS

YES

YES

Were ICP-AES and ICP-MS background corrections applied?

(Yes/No)

YES

YES

If yes, were raw data generated before application of background corrections?

(Yes/No)

NO

NO

Comments:

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette (or via an alternate means of electronic transmission, if approved in advance by USEPA) has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: Reddy Pakanati

Name:

REDDY PAKANATI

Date: 11/29/07

Title:

LABORATORY MANAGER

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## USEPA-CLP

## COVER PAGE

Lab Name: A4 Scientific, Inc. Contract: EPW06057  
Lab Code: A4 Case No: 36948 NRAS No.: \_\_\_\_\_ SDG No: MH23N0  
SOW No.: ILM05.4

EPA Sample No.

Lab Sample ID

MH23P80008703-19MH23P90008703-20

Were ICP-AES and ICP-MS interelement corrections applied?

(Yes/No)

ICP-AES

ICP-MS

YESYES

Were ICP-AES and ICP-MS background corrections applied?

(Yes/No)

YESYES

If yes, were raw data generated before application of background corrections?

(Yes/No)

NONOComments: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette (or via an alternate means of electronic transmission, if approved in advance by USEPA) has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: Reddy Pakanati

Name:

REDDY PAKANATIDate: 11/29/07

Title:

LABORATORY MANAGER000000002

**A4 SCIENTIFIC, INC.**

1544 Sawdust Road, Suite 505 • The Woodlands, TX 77380 • Phone (281) 292-5277

**Contract #: EPW06057****Case #: 36948****SDG #: MH23N0****SDG NARRATIVE****SAMPLE RECIEPT & LOGIN**

The following samples were received on the dates listed against them. The samples were logged in for analysis as listed.

EPA SAMPLE #	LAB SAMPLE #	DATE/TIME RECEIVED	AIRBILL NO.	ANALYSIS	Total # of Containers Received	REMARKS	MATRIX
MH23N0	0008703-01	11/9/07 09:43	863198575033	ICP-AES	1		SOIL
MH23N1	0008703-02	11/9/07 09:43	863198575033	ICP-AES	1		SOIL
MH23N2	0008703-03	11/9/07 09:43	863198575033	ICP-AES	1		SOIL
MH23N3	0008703-04	11/9/07 09:43	863198575033	ICP-AES	1		SOIL
MH23N4	0008703-05	11/9/07 09:43	863198575033	ICP-AES	1		SOIL
MH23N5	0008703-06	11/9/07 09:43	863198575033	ICP-AES	1		SOIL
MH23N6	0008703-07	11/9/07 09:43	863198575033	ICP-AES	1		SOIL
MH23N7	0008703-08	11/9/07 09:43	863198575033	ICP-AES	1		SOIL
MH23N8	0008703-09	11/9/07 09:43	863198575033	ICP-AES	1		SOIL
MH23N9	0008703-10	11/9/07 09:43	863198575033	ICP-AES	1		SOIL
MH23P0	0008703-11	11/9/07 09:43	863198575033	ICP-AES	1		SOIL
MH23P1	0008703-12	11/9/07 09:43	863198575033	ICP-AES	1		SOIL
MH23P2	0008703-13	11/9/07 09:43	863198575033	ICP-AES	1		SOIL
MH23P3	0008703-14	11/9/07 09:43	863198575033	ICP-AES	1		SOIL
MH23P4	0008703-15	11/9/07 09:43	863198575033	ICP-AES	1		SOIL
MH23P5	0008703-16	11/9/07 09:43	863198575033	ICP-AES	1	MS/DUP	SOIL
MH23P6	0008703-17	11/9/07 09:43	863198575033	ICP-AES	1		SOIL
MH23P7	0008703-18	11/9/07 09:43	863198575033	ICP-AES	1		SOIL
MH23P8	0008703-19	11/9/07 09:43	863198575033	ICP-AES	1		SOIL
MH23P9	0008703-20	11/9/07 09:43	863198575033	ICP-AES	1		SOIL

ICP-AES

**Issue:** Samples for case 36948 were received on 11/9/2007. TR/COC listed tag numbers do not match physical tag numbers.

**Resolution:** Per Region 8 Lab recorded the physical sample tag number on form DC-1 and proceeded with analysis of samples.

**Issue:** For samples received on 11/9, there was no temperature blank in the cooler. The cooler temperatures were determined 5 degrees for both coolers received. The following method was used to record cooler temperature. Removed ice between two sample containers and placed thermometers between them and stabilized for several minutes. The thermometer was not allowed to come in contact with any material except sample containers. The temperature of the shipping container was recorded on the TR/COC and form DC-1.

**Resolution:** Per direction from Region 8, the laboratory, proceed with the analysis of the samples.

**Issue:** There were no custody seals on any of the coolers.

**Resolution:** Per Region 8, proceed with the analysis of the samples.

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# A4 SCIENTIFIC, INC.

1544 Sawdust Road, Suite 505 • The Woodlands, TX 77380 • Phone (281) 292-5277

Contract #: EPW06057

Case #: 36948

SDG #: MH23N0

## SDG NARRATIVE

**Issue:** The lab received 121 samples in 5 coolers. There were 2 samples designated for lab QC in each cooler. The lab has a total of 6 SDG, and 10 QC samples designated. Lab confirmed if both designated Lab QC's were to be analyzed or if lab was to select only one per SDG.

**Resolution:** Per Region 8, the laboratory selected one of the designated samples for laboratory QC per SDG and proceeded with analysis of samples.

Lab selected sample MH23P5 and notified SMO.

SMO was notified. Directive is enclosed. No other discrepancies of issues were noted during receipt and login.

### ICP-AES

Soil Samples were digested by Hot-Block technique (HS2) and analyzed using a Thermo Electron ICAP6500.

MS and DUP were performed on sample "MH23P5". Spike recovery was outside the limits for Sb and Se. Post-digestion spike was performed for these elements.

Analytes with Serial Dilution percent difference not within the control limits are flagged with "E" on Form1s and Form8.

The following Samples were analyzed at a dilution for some elements to bring the concentration below the LDRs. The dilutions were made as below:

Sample ID	Dilution	Volume at digestate (ul)	Volume of 2% HNO3 (ul)	Final Volume (ul)
MH23N1	1.4	7,143	2,857	10,000
MH23P9	1.4	7,143	2,857	10,000

The following equations are used for calculation of sample results from raw instrument output data:

### ICP-AES

#### SOIL Samples:

$$\text{Concentration (dry Wt.) (mg/kg)} = \frac{C * V}{W * S} * DF$$

Where,

C = Concentration (mg/L)

V = Final sample volume in Liters (L) (0.1L)

W = Wet sample weight (kg) (0.001kg)

S = % solids/100

DF = Dilution Factor

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SAMPLE LOG-IN SHEET

Lab Name <b>A4 SCIENTIFIC, INC.</b>				Page <u>1</u> of <u>2</u>	
Received By (Print Name) <b>Larry Goodson</b>				Log-in Date <b>11/9/07</b>	
Received By (Signature) <i>[Signature]</i>					
Case Number <b>36948</b>		Sample Delivery Group No. <b>MT23PO</b>		NRAS Number <u>        </u>	
Tag #s do not match  Remarks:		Corresponding			
		EPA Sample #	Aqueous Sample pH	Sample Tag #	Assigned Lab #
1. Custody Seal(s) <u>Present/Absent*</u>		<b>MT23PO</b>	<b>NA</b>	<b>8311188</b>	<b>0008103 Intact</b>
2. Custody Seal Nos. <u>N/A</u>		<b>P1</b>		<b>8311199</b>	<b>-011 1-2 p/bok bag</b>
3. Traffic Reports/Chain of Custody Records or Packing Lists <u>Present/Absent*</u>		<b>P2</b>		<b>8309959</b>	<b>-13</b>
4. Airbill <u>Airbill/Sticker Present/Absent*</u>		<b>P3</b>		<b>8311187</b>	<b>-14</b>
5. Airbill No. <b>96319857603</b>		<b>P4</b>		<b>8309956</b>	<b>-15</b>
6. Sample Tags <u>Present/Absent*</u>		<b>P5</b>		<b>8311190</b>	<b>-16</b>
Sample Tag Numbers <b>11/9/07</b>		<b>P6</b>		<b>8311200</b>	<b>-17</b>
7. Sample Condition <u>Intact/Broken*/Leaking</u>		<b>P7</b>		<b>8309958</b>	<b>-18</b>
8. Cooler Temperature Indicator Bottle <u>Present/Absent*</u>		<b>P8</b>		<b>8309962</b>	<b>-19</b>
9. Cooler Temperature <b>5°C</b>		<b>P9</b>		<b>8311189</b>	<b>-20</b>
10. Does information on Traffic Reports/Chain of Custody Records and sample tags agree? <u>Yes/No*</u>					
11. Date Received at Lab <b>11/9/07</b>					
12. Time Received <b>10 AM</b>					
Sample Transfer					
Fraction <b>MHS</b>	Fraction				
Area # <b>cooler A</b>	Area #				
By <b>[Signature]</b>	By				
On <b>11/9/07</b>	On <b>11/9/07</b>				

\* Contact SMO and attach record of resolution

Reviewed By <b>[Signature]</b>	Logbook No. <b>NA</b>
Date <b>11/12/07</b>	Logbook Page No. <b>1 0000000005</b>

## SAMPLE LOG-IN SHEET

Lab Name <b>A4 SCIENTIFIC, INC.</b>				Page <u>2</u> of <u>2</u>	
Received By (Print Name) <b>Larry Goodson</b>				Log-in Date <b>11-2-07</b>	
Received By (Signature) <i>Larry Goodson</i>					
Case Number <b>30948</b>		Sample Delivery Group No. <b>MH23NO</b>		NRAS Number <b>2</b>	
Tag #'s do not Match  Remarks:		Corresponding			
		EPA Sample #	Aqueous Sample pH	Sample Tag #	Assigned Lab #
1. Custody Seal(s) Present/Absent* <u>Intact/Broken</u>		<b>MH23NO</b>	<b>NA</b>	<b>8311922</b>	<b>0008103 -01</b> <i>detact</i>
2. Custody Seal Nos. <u>N/A</u>		<b>W1</b>		<b>8311928</b>	<b>-02</b>
3. Traffic Reports/Chain of Custody Records or Packing Lists Present/Absent*		<b>W2</b>		<b>8311927</b>	<b>-03</b>
4. Airbill <u>Airbill/Sticker Present/Absent*</u>		<b>W3</b>		<b>8242407</b>	<b>-04</b>
5. Airbill No. <u>86319851</u> <u>5033</u>		<b>W4</b>		<b>8311913</b>	<b>-05</b>
6. Sample Tags Present/Absent*		<b>W5</b>		<b>8242400</b>	<b>-06</b>
Sample Tag Numbers <u>11/9/07</u>		<b>W6</b>		<b>8311926</b>	<b>-07</b>
7. Sample Condition <u>Intact/Broken*/Leaking</u>		<b>W7</b>		<b>8242403</b>	<b>-08</b>
8. Cooler Temperature Indicator Bottle Present/Absent*		<b>W8</b>		<b>8311931</b>	<b>-09</b>
9. Cooler Temperature <u>5°C</u>		<b>W9</b>		<b>8311915</b>	<b>-10</b>
10. Does information on Traffic Reports/Chain of Custody Records and sample tags agree? <u>Yes/No*</u>					
11. Date Received at Lab <u>11/9/07</u>					
12. Time Received <u>10 AM</u>					
Sample Transfer					
Fraction <b>MHS</b>		Fraction			
Area # <u>Cooler A</u>		Area #			
By <u>JS</u>		By <u>JS</u>			
On <u>11/09/07</u>		On <u>11/12/07</u>			

\* Contact SMO and attach record of resolution

Reviewed By <b>JS</b>	Logbook No. <b>NA</b>
Date <b>11/12/07</b>	Logbook Page No. <b>0000000000</b>

## FULL INORGANICS COMPLETE SDG FILE (CSF) INVENTORY SHEET

LABORATORY NAME	<u>A4 SCIENTIFIC, INC.</u>
CITY/STATE	<u>THE WOODLANDS, TX</u>
CASE NO. <u>36948</u>	SDG NO. <u>MH23ND</u>
SDG NOS. TO FOLLOW	<u>NA</u>
NRAS NO.	<u>NA</u>
CONTRACT NO.	<u>EPWD6057</u>
SOW NO.	<u>ILMD5.4</u>

All documents delivered in the Complete SDG File must be original documents where possible. (Reference - Exhibit B Section 2.6)

	PAGE NOS.		CHECK	
	FROM	TO	LAB	REGION
1. Cover Page	<u>1</u>	<u>2</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
2. SDG Narrative	<u>3</u>	<u>4</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
3. Sample Log-In Sheet (DC-1)	<u>5</u>	<u>6</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
4. Inventory Sheet (DC-2))	<u>7</u>	<u>8</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
5. Traffic Report/Chain of Custody Record(s)	<u>9</u>	<u>11</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Inorganic Analysis				
6. Data Sheet (Form I-IN)	<u>12</u>	<u>31</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
7. Initial & Continuing Calibration Verification (Form IIA-IN)	<u>32</u>	<u>42</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
8. CRQL Standard (Form IIB-IN)	<u>43</u>	<u>50</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
9. Blanks (Form III-IN)	<u>51</u>	<u>57</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
10. ICP-AES Interference Check Sample (Form IVA-IN)	<u>58</u>	<u>65</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
11. ICP-MS Interference Check Sample (Form IVB-IN)	<u>NA</u>	<u>NA</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
12. Matrix Spike Sample Recovery (Form VA-IN)	<u>66</u>	<u>66</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
13. Post-Digestion Spike Sample Recovery (Form VB-IN)	<u>67</u>	<u>67</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
14. Duplicates (Form VI-IN)	<u>68</u>	<u>68</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
15. Laboratory Control Sample (Form VII-IN)	<u>69</u>	<u>69</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
16. ICP-AES and ICP-MS Serial Dilutions (Form VIII-IN)	<u>70</u>	<u>70</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
17. Method Detection Limits (Annually) (Form IX-IN)	<u>71</u>	<u>73</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
18. ICP-AES Interelement Correction Factors (Quarterly) (Form XA-IN)	<u>74</u>	<u>74</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
19. ICP-AES Interelement Correction Factors (Quarterly) (Form XB-IN)	<u>75</u>	<u>75</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
20. ICP-AES and ICP-MS Linear Ranges (Quarterly) (Form XI-IN)	<u>76</u>	<u>76</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
21. Preparation Log (Form XII-IN)	<u>77</u>	<u>77</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
22. Analysis Run Log (Form XIII-IN)	<u>78</u>	<u>83</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

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	PAGE NOs.		CHECK	
	FROM	TO	LAB	REGION
23. ICP-MS Tune (Form XIV-IN)	NA	NA	✓	—
24. ICP-MS Internal Standards Relative Intensity Summary (Form XV-IN)	6	6	✓	✓
25. ICP-AES Raw Data	84	719	✓	✓
26. GFAA Raw Data (If Applicable)	NA	NA	✓	—
27. ICP-MS Raw Data	+	+	✓	—
28. Mercury Raw Data	+	+	✓	—
29. Cyanide Raw Data	+	+	✓	—
30. Preparation Logs Raw Data	720	762	✓	✓
31. Percent Solids Determination Log	763	764	✓	✓
32. USEPA Shipping/Receiving Documents				
Airbill (No. of Shipments <u>1</u> )	765	765	✓	✓
Sample Tags	766	772	✓	✓
Sample Log-In Sheet (Lab)	773	774	✓	✓
33. Misc. Shipping/Receiving Records (list all individual records)				
Telephone Logs	NA	NA	✓	—
<u>NA</u>	+	+	✓	—
<u>1</u>	+	+	✓	—
34. Internal Lab Sample Transfer Records & Tracking Sheets (describe or list)				
<u>Custody Stats Logbook</u>	775	775	✓	✓
<u>NA</u> 11/29/07	NA	NA	✓	—
35. Internal Original Sample Prep & Analysis Records (describe or list)				
Prep Records <u>Digestion Log</u>	720	721	✓	✓
Analysis Records <u>Run Log</u>	722	734	✓	✓
Description <u>Standard prep log</u>	735	762	✓	✓
36. Other Records (describe or list)				
Telephone Communications Log	NA	NA	✓	—
<u>Emails</u>	776	782	✓	✓
<u>NA</u>	NA	NA	✓	—

37. Comments: \_\_\_\_\_

\_\_\_\_\_ 11/29/07

Completed by: Jessica Schulze Jessica Schulze sample Custodian 11/29/07  
(CLP Lab) (Signature) (Print Name & Title) (Date)

Audited by: Carl Beal Carl Beal 12/10/07  
(USEPA) (Signature) (Print Name & Title) (Date)

**SAMPLE DELIVERY GROUP (SDG)  
COVER SHEET**

SDG Number: MH23N0

☒ ICP-AES Analysis

☐ ICP-MS Analysis

Laboratory Name: A4 SCIENTIFIC, INC.

Laboratory Code: A4

Contract No.: EPW06057

Case No.: 36948

Analysis Price: \_\_\_\_\_

SDG Turnaround: 21 days

Modified Analysis (if applicable):

Modification Reference No.: \_\_\_\_\_

**EPA Sample Numbers in SDG (Listed in Numerical Order)**

1) MH23N0	7) MH23N6	13) MH23P2	19) MH23P8
2) MH23N1	8) MH23N7	14) MH23P3	20) MH23P9
3) MH23N2	9) MH23N8	15) MH23P4	21)
4) MH23N3	10) MH23N9	16) MH23P5	22)
5) MH23N4	11) MH23P0	17) MH23P6	23)
6) MH23N5	12) MH23P1	18) MH23P7	24)

MH23N0

First Sample in SDG

11/09/2007

First Sample Receipt Date

MH23P9

Last Sample in SDG

11/09/2007

Last Sample Receipt Date

**Note:** There are a maximum of 20 **field** samples [excluding Performance Evaluation (PE) Samples] in an SDG. Attach the TR/COC Records to this form in alphanumeric order (the order listed above on this form).

  
Signature

11/9/07  
Date



USEPA Contract Laboratory Program  
Inorganic Traffic Report & Chain of Custody Record

Case No: 36948

DAS No:

SDG No:

MH 23 PO NO 11/9/07

L

Date Shipped: Carrier Name: FedEx Airbill: Shipped to: A4 Scientific 1544 Sawdust Road Suite 505 The Woodlands TX 77380 (281) 292-5277	<b>Chain of Custody Record</b>		Sampler Signature: <i>[Signature]</i>	<b>For Lab Use Only</b> Lab Contract No: ERM06057 Unit Price: <i>[Signature]</i> Transfer To: <i>[Signature]</i> Lab Contract No: <i>[Signature]</i> Unit Price:	
	Relinquished By	(Date / Time)	Received By		(Date / Time)
	1 Chris Hayes	11/06/07 8AM	Janna Simonsen		11/06/07
	2 Janna Simonsen	11/8/07 11AM			
3					
4			J. Schulz 11/9/07 943		

INORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No/ PRESERVATIVE/ Bottles	STATION LOCATION	SAMPLE COLLECT DATE/TIME	ORGANIC SAMPLE No.	FOR LAB USE ONLY Sample Condition On Receipt
MH23N0	Surface Soil (0"-12")/ Chris Hayes	M/G	TM (21)	TAG50 (1)	UE17-CNTY-0.5	S: 10/30/2007 15:25		
MH23N1	Surface Soil (0"-12")/ Chris Hayes	M/G	TM (21)	TAG51 (1)	UW01-29-0.5	S: 10/30/2007 14:35		
MH23N2	Surface Soil (0"-12")/ Chris Hayes	M/G	TM (21)	TAG52 (1)	UW02-29-0.5	S: 10/30/2007 14:15		
MH23N3	Surface Soil (0"-12")/ Chris Hayes	M/G	TM (21)	TAG53 (1)	UW03-29-0.5	S: 10/30/2007 14:50		
MH23N4	Surface Soil (0"-12")/ Chris Hayes	M/G	TM (21)	TAG54 (1)	UW04-29-0.5	S: 10/30/2007 15:05		
MH23N5	Surface Soil (0"-12")/ Chris Hayes	M/G	TM (21)	TAG55 (1)	UW04-29-1.0	S: 10/30/2007 15:15		
MH23N6	Surface Soil (0"-12")/ Chris Hayes	M/G	TM (21)	TAG56 (1)	UW05-29-0.5	S: 10/30/2007 15:35		
MH23N7	Surface Soil (0"-12")/ Chris Hayes	M/G	TM (21)	TAG57 (1)	UW06-29-0.5	S: 10/30/2007 16:30		
MH23N8	Surface Soil (0"-12")/ Chris Hayes	M/G	TM (21)	TAG58 (1)	UW07-29-0.5	S: 10/30/2007 16:10		
MH23N9	Surface Soil (0"-12")/ Chris Hayes	M/G	TM (21)	TAG59 (1)	UW08-29-0.5	S: 10/30/2007 16:45		

1508 SP 0008702-01 Intact  
-02  
-03  
-04  
-05  
-06  
-07  
-08  
-09  
-10

Shipment for Case Complete? <input checked="" type="checkbox"/>	Sample(s) to be used for laboratory QC: MH23L6, MH23M5	Additional Sampler Signature(s): <i>[Signature]</i> 11/9/07	Cooler Temperature Upon Receipt: 50	Chain of Custody Seal Number: <i>[Signature]</i> 11/9/07
Analysis Key: TM CLP TAL Total Metals	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G	Custody Seal Intact? <input checked="" type="checkbox"/>	Shipment Iced? <input checked="" type="checkbox"/>

TR Number: 8-065602925-110607-0002

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PR provides preliminary results. Requests for preliminary results will increase analytical costs.  
Send Copy to: Sample Management Office, 15000 Conference Center Dr., Chantilly, VA. 20151-3819 Phone 703/818-4200; Fax 703/818-4602



USEPA Contract Laboratory Program  
Inorganic Traffic Report & Chain of Custody Record

Case No: 36948  
DAS No:  
SDG No: MH23NO

L

Date Shipped: Carrier Name: FedEx Airbill: Shipped to: A4 Scientific 1544 Sawdust Road Suite 505 The Woodlands TX 77380 (281) 292-5277	<b>Chain of Custody Record</b>		Sampler Signature: <i>Ch</i>
	Relinquished By	(Date / Time)	Received By
	1 Chris Hayes	11/06/07 8AM	Janna Simonsen
	2 Janna Simonsen	11/8/07 11AM	
	3		
4		J. Schulte	11/9/07 943
<b>For Lab Use Only</b>			
Lab Contract No:			EPW06057
Unit Price:			
Transfer To:			
Lab Contract No:			
Unit Price:			

INORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No/ PRESERVATIVE/ Bottles	STATION LOCATION	SAMPLE COLLECT DATE/TIME	ORGANIC SAMPLE No.	FOR LAB USE ONLY Sample Condition On Receipt
MH23P0	Surface Soil (0"-12")/ Chris Hayes	M/G	TM (21)	TAG60 (1)	UE01-27-0.5	S: 10/30/2007 17:20	0008103-011	Intact
MH23P1	Surface Soil (0"-12")/ Chris Hayes	M/G	TM (21)	TAG61 (1)	UE01-28-0.5	S: 10/31/2007 12:50	-12	
MH23P2	Surface Soil (0"-12")/ Chris Hayes	M/G	TM (21)	TAG62 (1)	UE02-22-0.5	S: 10/31/2007 12:25	-13	
MH23P3	Surface Soil (0"-12")/ Chris Hayes	M/G	TM (21)	TAG63 (1)	UE02-27-0.5	S: 10/30/2007 17:10	-14	
MH23P4	Surface Soil (0"-12")/ Chris Hayes	M/G	TM (21)	TAG64 (1)	UE02-28-0.5	S: 10/31/2007 13:50	-015	
MH23P5	Surface Soil (0"-12")/ Chris Hayes	M/G	TM (21)	TAG65 (1)	UE03-27-0.5	S: 10/30/2007 16:55	-016	
MH23P6	Surface Soil (0"-12")/ Chris Hayes	M/G	TM (21)	TAG66 (1)	UE04-27-0.5	S: 10/30/2007 16:40	-017	
MH23P7	Surface Soil (0"-12")/ Chris Hayes	M/G	TM (21)	TAG67 (1)	UE05-27-0.5	S: 10/30/2007 16:25	-018	
MH23P8	Surface Soil (0"-12")/ Chris Hayes	M/G	TM (21)	TAG68 (1)	UE05-28-0.5	S: 10/31/2007 13:10	-019	
MH23P9	Surface Soil (0"-12")/ Chris Hayes	M/G	TM (21)	TAG69 (1)	UE06-27-0.5	S: 10/30/2007 16:10	-020	

Shipment for Case Complete? <input checked="" type="checkbox"/>	Sample(s) to be used for laboratory QC: MH23P5, MH23Q3	Additional Sampler Signature(s): <i>11/9/07</i>	Cooler Temperature Upon Receipt: 4°C	Chain of Custody Seal Number: <i>11/9/07</i>
Analysis Key: CLP TAL Total Metals	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G	Custody Seal Intact? <input checked="" type="checkbox"/>	Shipment Iced? <input checked="" type="checkbox"/>

TR-Number: 8-065602925-110607-0003

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